

IN THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in the application:

1 1. (previously presented) A telephone call and voice processing system comprising:

2 switching circuitry for receiving a call, wherein the switching circuitry connects the call
3 to one of a plurality of telecommunications devices coupled to the system in accordance with
4 information accompanying the call that identifies the telecommunications device, wherein two or
5 more of the plurality of telecommunications devices each further comprises both a speaker and a
6 microphone for enabling a user to audibly communicate with the call; and

7 voice processing circuitry for automatically interacting with the call to direct the call to a
8 voice mailbox if a user of the telecommunications device does not answer the call, wherein the
9 switching circuitry and the voice processing circuitry are controlled by not more than one
10 microprocessor.

1 2. (previously presented) The system as recited in claim 1, wherein the voice processing
2 circuitry further comprises a signal processing circuitry coupled to the one microprocessor.

1 3. (previously presented) A telephone call and voice processing system comprising:

2 switching circuitry for receiving a call, wherein the switching circuitry connects the call
3 to a telecommunications device coupled to the system; and

4 voice processing circuitry for automatically interacting with the call, wherein the
5 switching circuitry and the voice processing circuitry are controlled by a single processing
6 means, wherein the voice processing circuitry further comprises a signal processing circuitry
7 coupled to the single processing means, wherein the switching circuitry further comprises a
8 digital cross-point matrix coupled to the single processing means and to the signal processing
9 circuitry.

4. (cancelled)

5. (cancelled) .

1 6. (previously presented) A telephone call and voice processing system comprising:
2 a plurality of telecommunications devices coupled to the system as extensions;
3 switching circuitry for receiving a call, wherein the switching circuitry connects the call
4 to one of the telecommunications devices; and
5 voice processing circuitry for automatically interacting with the call, wherein the
6 switching circuitry and the voice processing circuitry are controlled by a single processing
7 means, wherein the single processing means is controlled by a single set of software operable for
8 controlling both the switching circuitry and the voice processing circuitry.

7. (cancelled)

8. (cancelled)

9. (cancelled)

10. (cancelled)

11. (cancelled)

1 12. (previously presented) A telephone call and voice processing system comprising:
2 switching circuitry for receiving a call, wherein the switching circuitry connects the call
3 to a telecommunications device coupled to the system, wherein two or more of the plurality of
4 telecommunications devices each further comprises both a speaker and a microphone for
5 enabling a user to audibly communicate with the call; and
6 voice processing circuitry for automatically interacting with the call to direct the call to a
7 voice mailbox if the telecommunications device does not go off-hook to answer the call, wherein
8 the switching circuitry and the voice processing circuitry are controlled by a single processing

9 means, wherein the voice processing circuitry further comprises a signal processing circuitry
10 coupled to the single processing means, wherein the signal processing circuitry further includes:

11 a DTMF receiver operable for recognizing DTMF tones from the call and instructing the
12 switching circuitry to connect the call to the telecommunications device identified by the DTMF
13 tones.

13. (cancelled)

14. (cancelled)

15. (cancelled)

16. (cancelled)

17. (cancelled)

1 18. (previously presented) A telephone call and voice processing system comprising:

2 switching circuitry for receiving a call, wherein the switching circuitry connects the call
3 to one of a plurality of telecommunications devices coupled to the system in accordance with
4 information accompanying the call that identifies the telecommunications device, wherein two or
5 more of the plurality of telecommunications devices each further comprises both a speaker and a
6 microphone for enabling a user to audibly communicate with the call;

7 voice processing circuitry for automatically interacting with the call, wherein the
8 switching circuitry and the voice processing circuitry are controlled by not more than one
9 microprocessor; wherein the voice processing circuitry further comprises a signal processing
10 circuitry coupled to the one microprocessor; and

11 circuitry operable for recording all or a portion of the call during an off-hook state after
12 the telecommunications device is connected to the call.

1 19. (previously presented) The system as recited in claim 18, wherein the recording circuitry
2 operates in response to a user manually pressing a button on a telephone set.

1 20. (previously presented) A telephone call and voice processing system comprising:
2 switching circuitry for receiving a call, wherein the switching circuitry connects the call
3 to one of a plurality of telecommunications devices coupled to the system in accordance with
4 information accompanying the call that identifies the telecommunications device;
5 voice processing circuitry for automatically interacting with the call, wherein the
6 switching circuitry and the voice processing circuitry are controlled by not more than one
7 microprocessor; and
8 circuitry operable for recording all or a portion of the call during an off-hook state after
9 the telecommunications device is connected to the call, wherein the recording circuitry operates
10 in response to a user manually pressing a button on a telephone set, and wherein the recording
11 circuitry further comprises:
12 circuitry for coupling a recording buffer in signal processing circuitry to the call, wherein
13 the signal processing circuitry is coupled to the one microprocessor.

21. (cancelled)

22. (cancelled)

23. (cancelled)

1 24. (original) The system as recited in claim 1, further comprising:
2 circuitry for listening to a voice signal at a telephone extension coupled to the system;
3 circuitry for activating a recording sequence to record the voice signal; and
4 circuitry for storing the recorded voice signal in a digital memory.

1 25. (original) The system as recited in claim 24, wherein the activating circuitry is tactilely
2 initiated by a user of the telephone extension.

1 26. (original) The system as recited in claim 25, wherein the voice signal originated from the
2 call.

1 27. (previously presented) A telephone call and voice processing system comprising:
2 switching circuitry for receiving a call, wherein the switching circuitry connects the call
3 to a telecommunications device coupled to the system, wherein two or more of the plurality of
4 telecommunications devices each further comprises both a speaker and a microphone for
5 enabling a user to audibly communicate with the call;
6 voice processing circuitry for automatically interacting with the call, wherein the
7 switching circuitry and the voice processing circuitry are controlled by a single processing
8 means;
9 circuitry for listening to a voice signal at a telephone extension coupled to the system;
10 circuitry for activating a recording sequence to record the voice signal; and
11 circuitry for storing the recorded voice signal in a digital memory, wherein the activating
12 circuitry is tactically initiated by a user of the telephone extension, wherein the voice signal
13 originated from a voice mail message stored in the system.

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57. (cancelled)

1 58. (previously presented) In a telephone call and voice processing system comprising
2 switching circuitry for receiving an incoming call from a source external to the system, wherein
3 the switching circuitry connects the incoming call to a telecommunications device coupled to the
4 system from among a plurality of telecommunications devices connected as telephone extensions
5 of the switching circuitry, and voice processing circuitry for automatically interacting with the
6 call, wherein the switching circuitry and the voice processing circuitry are controlled by a single
7 processing means, a method comprising the steps of:

8 listening to a voice signal at a telephone extension coupled to the system;

9 activating a recording sequence to record the voice signal; and

10 storing the recorded voice signal in a memory.

1 59. (original) The method as recited in claim 58, wherein the activating step is tactilely
2 initiated by a user of the telephone extension.

1 60. (original) The method as recited in claim 58, wherein the voice signal originated from
2 the call to the system.

1 61. (original) The method as recited in claim 58, wherein the voice signal originated from a
2 voice mail message stored in the system.

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68. (cancelled)

1 69. (previously presented) A telephone call and voice processing system comprising:
2 switching circuitry for receiving an incoming call from a source external to the system,
3 wherein the switching circuitry connects the incoming call to one of a plurality of
4 telecommunications devices coupled to the system as extensions to the system; and
5 voice processing circuitry for automatically interacting with the call to direct the call to a
6 voice mailbox if the extension does not go off-hook to answer the call, wherein the switching
7 circuitry and the voice processing circuitry are controlled by a single microprocessor.

1 70. (previously presented) A telephone call and voice processing system comprising:

2 switching circuitry for receiving a call, wherein the switching circuitry connects the call
3 to one of a plurality of telecommunications devices coupled to the system; and

4 voice processing circuitry for automatically interacting with the call to direct the call to a
5 voice mailbox if the extension does not go off-hook to answer the call, wherein the switching
6 circuitry further comprises a digital cross-point matrix.

1 71. (previously presented) A telephone call and voice processing system comprising:

2 switching circuitry for receiving a call, wherein the switching circuitry connects the call
3 to one of a plurality of telecommunications devices coupled to the system;

4 the plurality of telecommunications devices connected to the system as telephone
5 extensions accessible by the system solely through the switching circuitry;

6 voice processing circuitry for automatically interacting with the call, wherein the
7 switching circuitry and the voice processing circuitry are controlled by a single processing
8 means;

9 circuitry for listening to a voice signal at one of the telephone extensions coupled to the
10 system;

11 circuitry for activating a recording sequence to record the voice signal; and

12 circuitry for storing the recorded voice signal in a digital memory.

1 72. (previously presented) A telephone call and voice processing system comprising:

2 switching circuitry for receiving a call, wherein the switching circuitry connects the call
3 to a telecommunications device coupled to the system;

4 voice processing circuitry for automatically interacting with the call to direct the call to a
5 voice mailbox if the device does not go off-hook to answer the call, wherein the switching
6 circuitry and the voice processing circuitry are controlled by a single processing means; and

7 circuitry for permitting a user of a telephone coupled to the system to monitor a voice
8 mail message while the message is being recorded into the user's mailbox.

1 73. (previously presented) The system as recited in claim 1, wherein the information is
2 detected DTMF tones.

1 74. (previously presented) The system as recited in claim 1, wherein the call is received by
2 the switching circuitry from a central office trunk line.

1 75. (previously presented) The system as recited in claim 6, wherein the call is received from
2 a source external to the system, and is connected to one of the telecommunications devices in
3 accordance with detected DTMF tones accompanying the call, wherein the DTMF tones identify
4 the telecommunications device to which the call is directed.

1 76. (previously presented) A telephone call and voice processing system comprising:
2 switching circuitry for receiving a call, wherein the switching circuitry connects the call
3 to a telecommunications device coupled to the system; and
4 voice processing circuitry for automatically interacting with the call, wherein the
5 switching circuitry and the voice processing circuitry are controlled by a single processing
6 means, wherein the voice processing circuitry further comprises a signal processing circuitry
7 coupled to the single processing means, wherein the signal processing circuitry further includes:
8 a DTMF receiver operable for recognizing DTMF tones from the call and instructing the
9 switching circuitry to connect the call to the telecommunications device identified by the DTMF
10 tones, wherein the telecommunications device is one of a plurality of telephone extensions
11 connected to the switching circuitry.

1 77. (previously presented) A telephone call and voice processing system comprising:
2 switching circuitry for receiving a call, wherein the switching circuitry connects the call
3 to a telecommunications device coupled to the system;
4 voice processing circuitry for automatically interacting with the call, wherein the
5 switching circuitry and the voice processing circuitry are controlled by a single processing
6 means;

7 circuitry for listening to a voice signal at a telephone extension coupled to the system;
8 circuitry for activating a recording sequence to record the voice signal; and
9 circuitry for storing the recorded voice signal in a digital memory, wherein the activating
10 circuitry is tactically initiated by a user of the telephone extension, wherein the voice signal
11 originated from a voice mail message stored in the system, wherein the call is an incoming call
12 received by the switching circuitry via a central office trunk line, and wherein the switching
13 circuitry connects the incoming call to one of a plurality of telecommunications devices coupled
14 to the system as telephone extensions to the system.

1 78. (previously presented) The method as recited in claim 58, wherein the external source is
2 a central office trunk line.

1 79. (previously presented) The method as recited in claim 58, wherein the switching
2 circuitry connects the incoming call to one of the plurality of telecommunications devices in
3 response to information accompanying the incoming call that identifies the telecommunications
4 device to which the incoming call is connected to.

1 80. (previously presented) The system as recited in claim 69, wherein the external source is a
2 central office trunk line.

1 81. (previously presented) The system as recited in claim 69, wherein the switching circuitry
2 connects the incoming call to one of the plurality of extensions in response to information
3 accompanying the incoming call that identifies the one of the plurality of extensions.

1 82. (previously presented) The system as recited in claim 81, wherein the information is
2 detected DTMF tones.

1 83. (previously presented) A telephone call and voice processing system comprising:
2 a single microprocessor;
3 switching circuitry controlled by the single microprocessor;

1 a trunk line connected to the switching circuitry and adaptable for connecting to central
2 office trunk circuitry;

3 a plurality of telephone extensions;

4 extension lines coupling the plurality of telephone extensions to the switching circuitry,
5 wherein a call received by the switching circuitry over the trunk line is connected to one of the
6 plurality of telephone extensions by the switching circuitry in response to information
7 accompanying the call which identifies the one of the plurality of telephone extensions the call
8 desires to be connected to; and

9 voice processing circuitry for automatically interacting with the call including coupling
10 the call to a voice mail box associated with the one of the telephone extensions.

1 84. (previously presented) A telephone call and voice processing system comprising:

2 switching circuitry for receiving a call, wherein the switching circuitry connects the call
3 to one of a plurality of telecommunications devices coupled to the system in accordance with
4 information accompanying the call that identifies the telecommunications device, wherein two or
5 more of the plurality of telecommunications devices each further comprises both a speaker and a
6 microphone for enabling a user to audibly communicate with the call; and

7 voice processing circuitry for automatically interacting with the call, wherein the
8 switching circuitry and the voice processing circuitry are controlled by not more than one
9 microprocessor, wherein each of the two or more of the plurality of telecommunications devices
10 are separately operable telephone extensions.

85. (cancelled)

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1 91. (previously presented) A telephone call and voice processing system comprising:

2 switching circuitry for receiving an incoming call from a source external to the
3 telephone call and voice processing system, wherein the switching circuitry connects the
4 incoming call to one of a plurality of telecommunications devices coupled to the telephone
5 call and voice processing system as extensions to the telephone call and voice processing
6 system; and

7 voice processing circuitry for automatically interacting with the call to direct the call
8 to a voice mailbox if a user of the telecommunications device does not answer the call,
9 wherein the switching circuitry and the voice processing circuitry are controlled by a single
10 microprocessor.

1 92. (previously presented) The system as recited in claim 3, wherein the voice processing
2 circuitry automatically interacts with the call to direct the call to a voice mailbox if a user of
3 the telecommunications device does not answer the call.